7310 530 8/11/99

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Asst. Commissioner of Patents and Trademarks, Washington, aust 20, 1999 D.C. on

RECEIVED

AUG 26 1999

Publishing Division

PATENT

Attorney Docket No. 17634-000510

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Examiner:

B. Brumback

Brian R. Murphy et al.

Art Unit:

1643

Application No.: 08/892,403

Filed: July 15, 1997

FORMAL DRAWINGS TRANSMITTAL

For: PRODUCTION OF ATTENUATED

RESPIRATORY SYNCYTIAL VIRUS VACCINES FROM **CLONED NUCLEOTIDE**

SEQUENCES

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

Pursuant to the Notice of Allowability dated May 21, 1999, Applicants submit 21 sheets of formal drawings to be made of record in the above-identified case.

Respectfully submitted,

Dated: 20 August 1999

By:__

Reg. No. 32,928

TOWNSEND and TOWNSEND and CREW LLP

Two Embarcadero Center, 8th Flooor

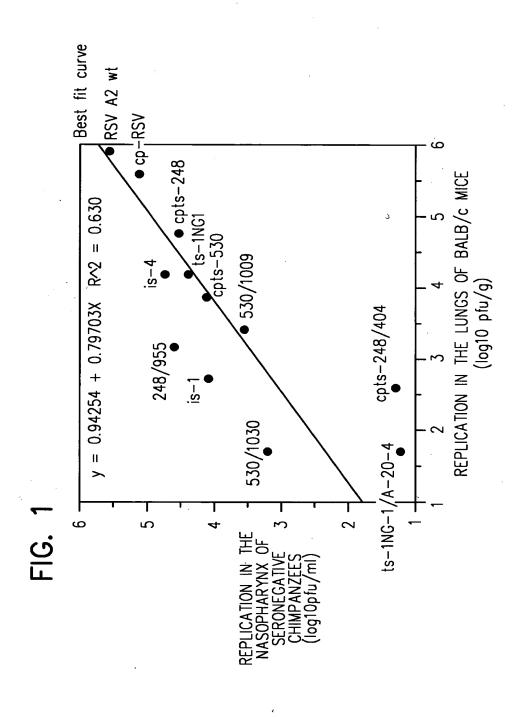
San Francisco, CA 94111

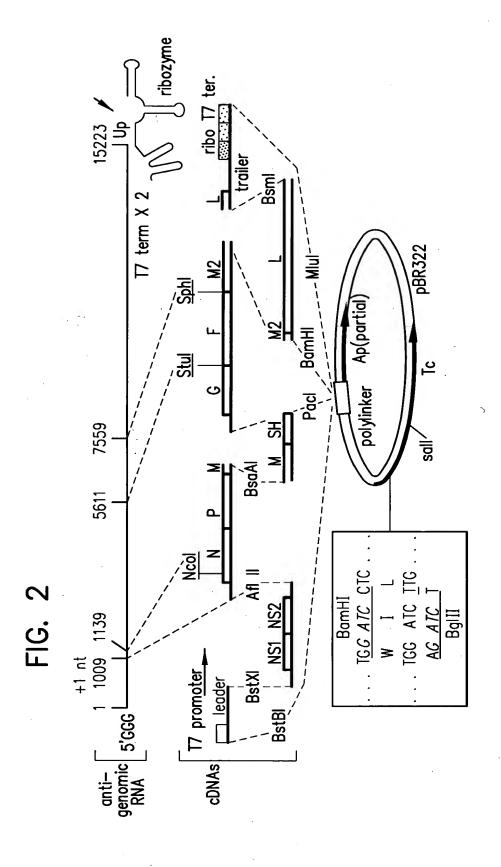
(206) 467-9600

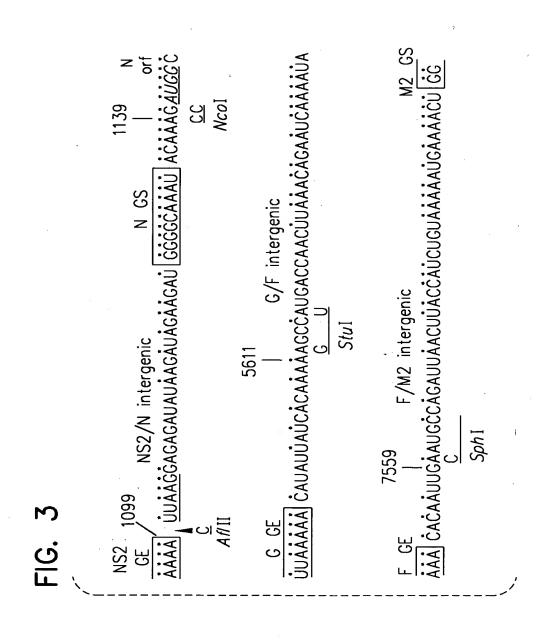
ŠE 5000837 v1

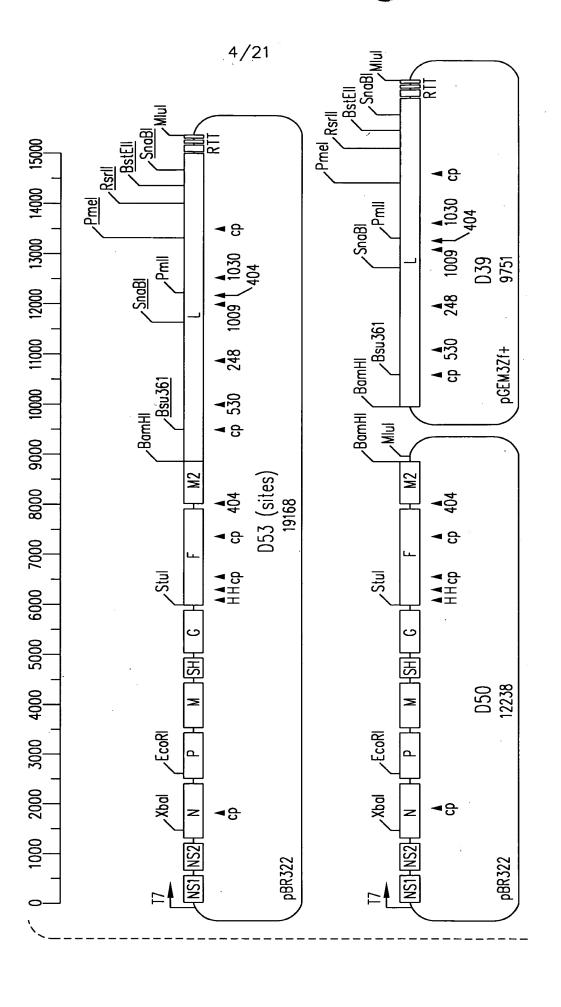
RTIS APPLICATION COVER SHEET

CWU										TEAM LOCATION									TEXT TEAM						
										CU		Y.	100	10101	7 D	A TU			<u> </u>	OF.		NC). O		DATE
	RIA				3	,					IEC GIT					at ! 99		ł	iO.	•			AII	_	EDITED // 3.99
ED	OIT ()RI H	S	- 1	EDI REI					ED EU		ap	() e/	av	Vipo ad	AS de	d	8	5,	B	(Fo	OY OY		USJE d	popdence rawings
																			<u>_</u>	•					
1	2 27	3	4 29	5	6	7 32	8	9														_	24		A
	52			30 55	31 56	-		34 59	35 60														49 74		
	77		79																						





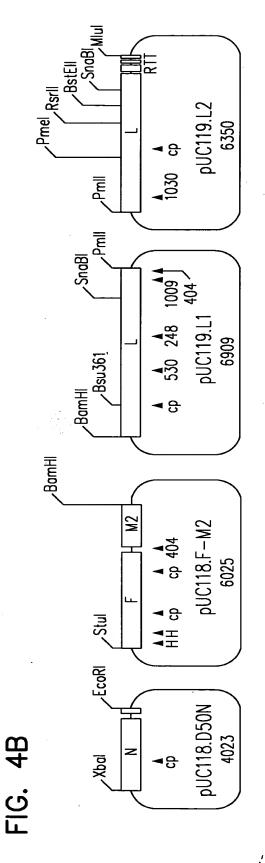


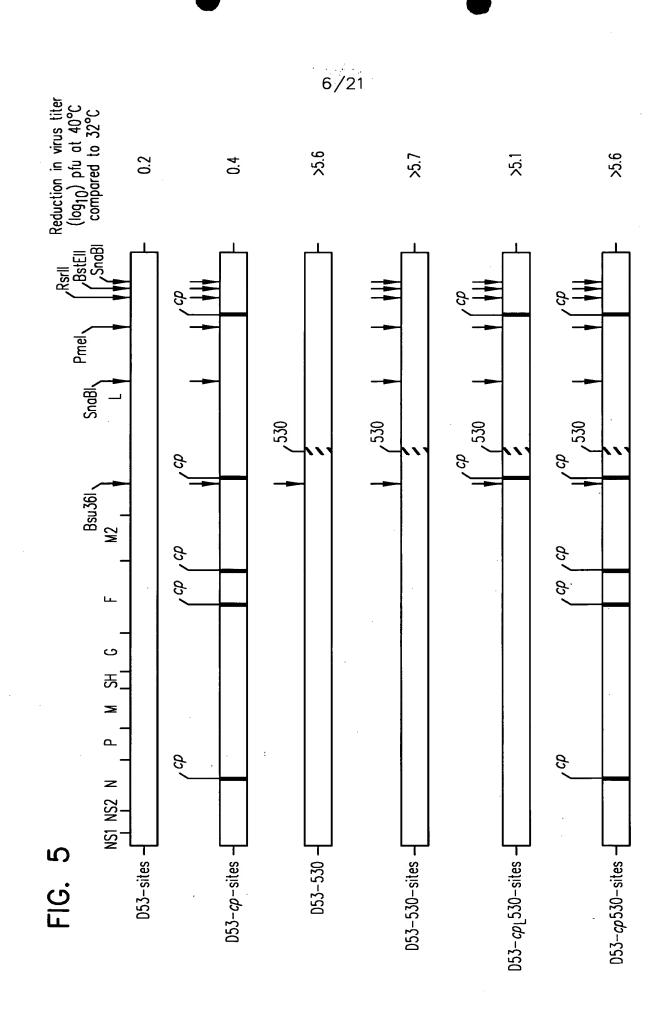


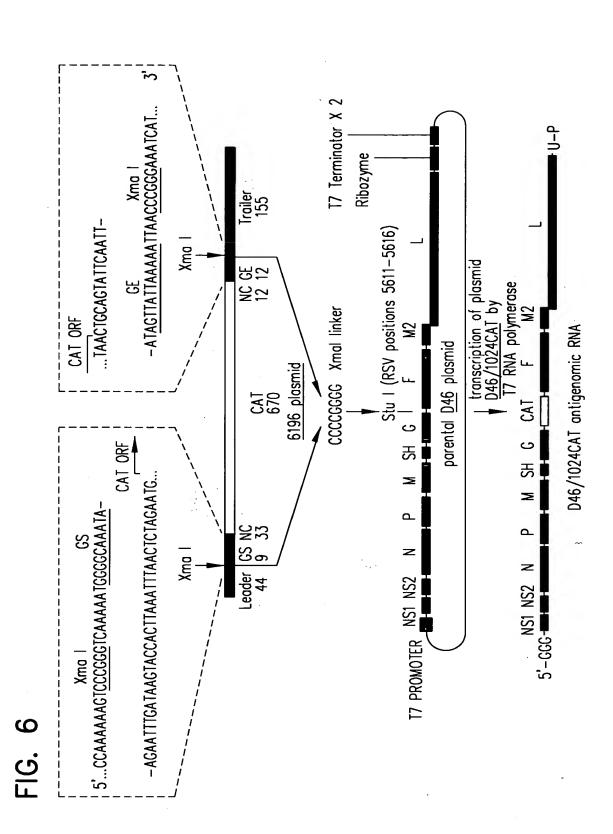
7

FIG. 4A









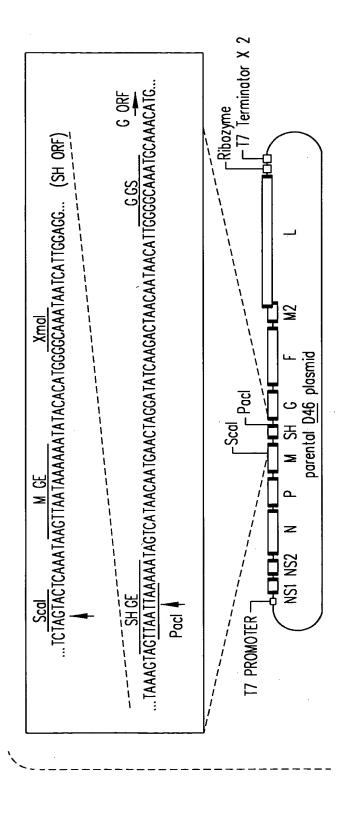
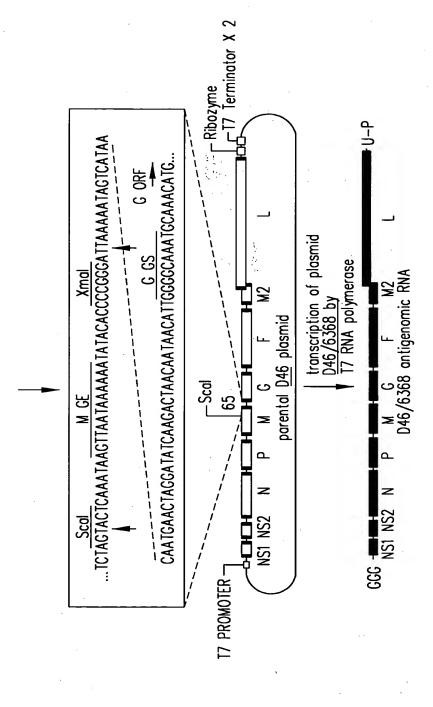


FIG. 7A

FIG. 7E



G

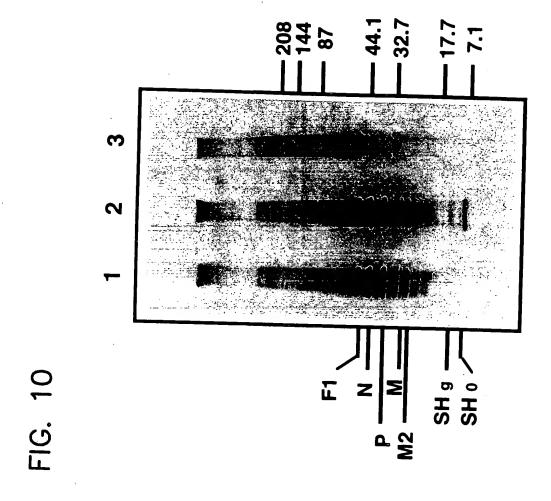


FIG. 8

1 2 3 4 5

1,635

1,018

516

394

FIG. 9A

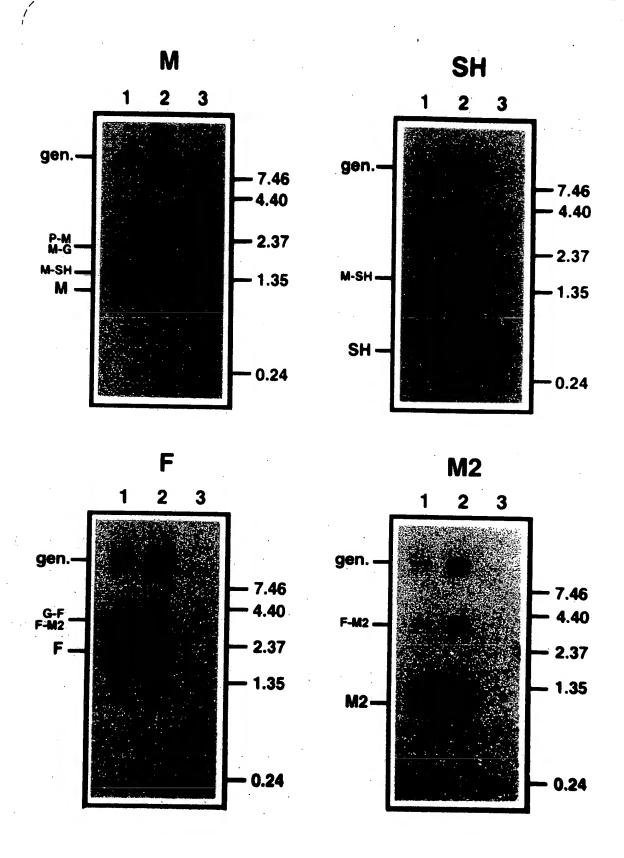
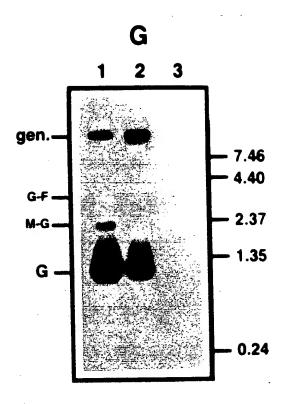
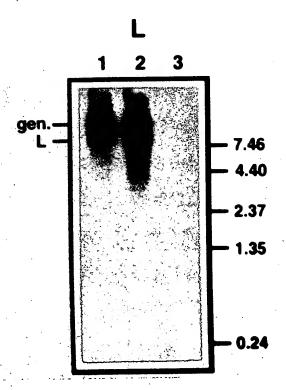


FIG. 9B







13/21

FIG. 11

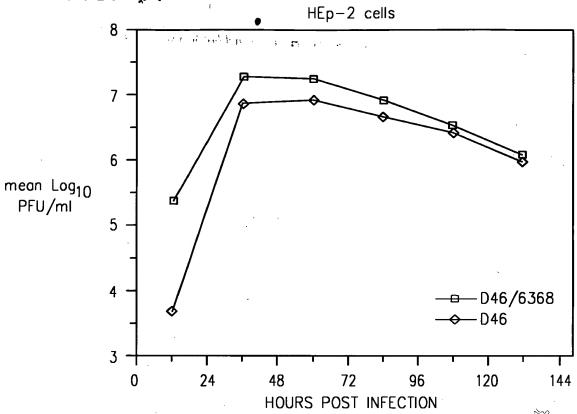
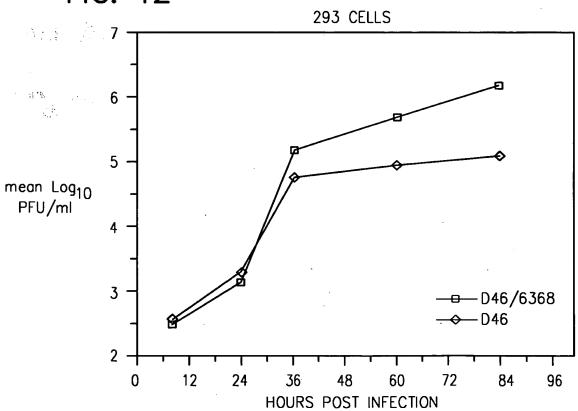
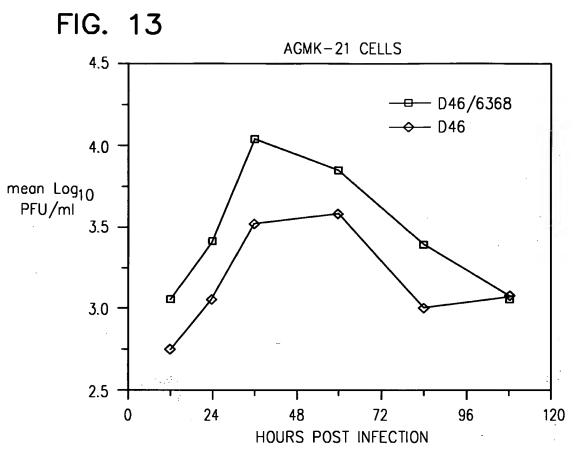
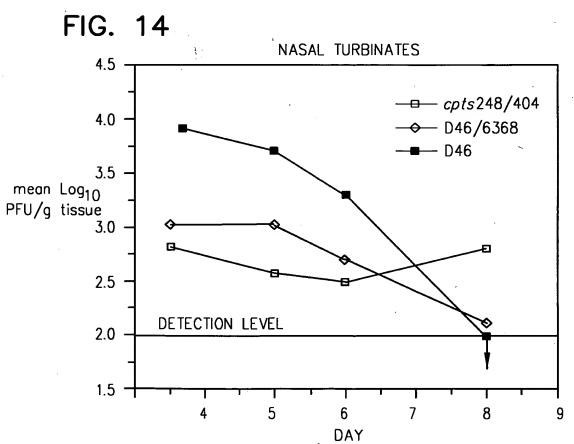


FIG. 12







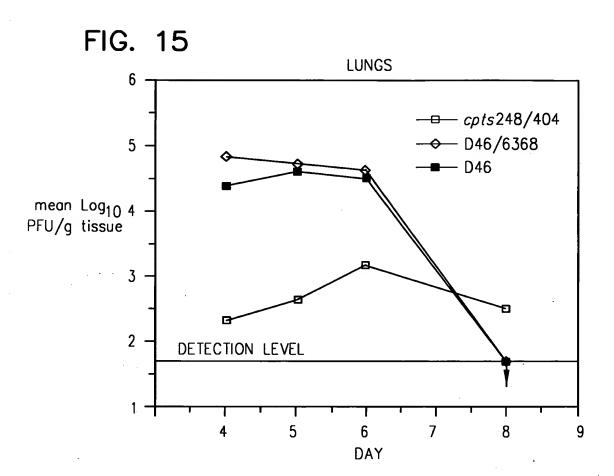
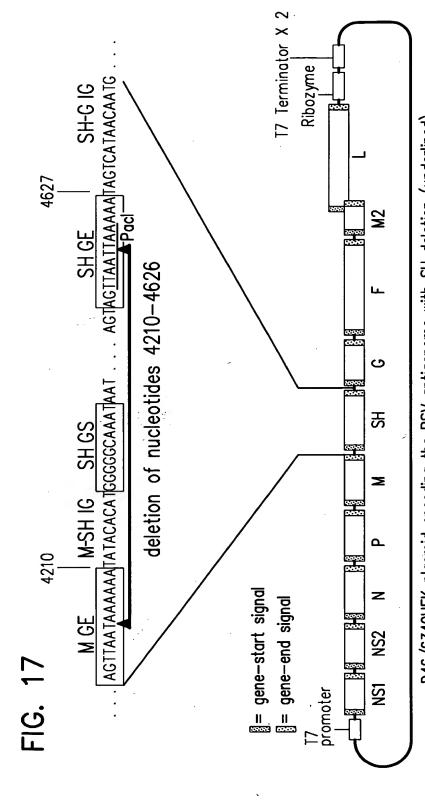


FIG. 16

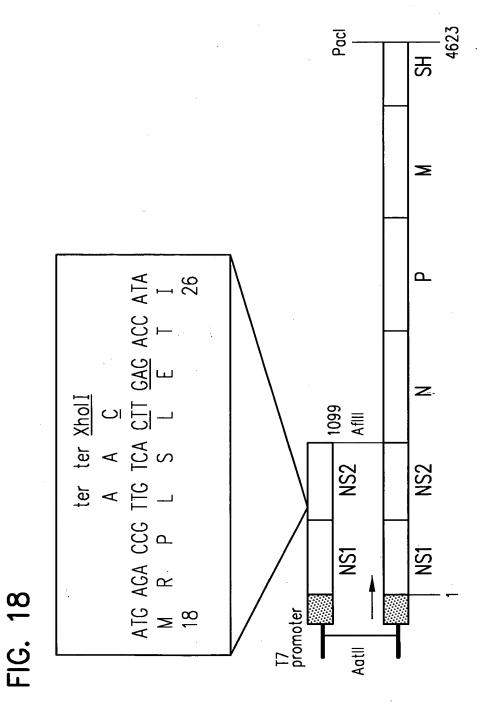
The SH-minus mutant has a steeper gradient of polar transcription

		рога	ti di ioci	ption		
Relat	ive mR	NA abur	ndance:	SH-min	us/wild	type
	М	G	F	М2	L	
	1.1	1.3	0.61	0.32	0.17	
7	Posi	tions of	genes	in 3'-5'	map	

Positi	ons of genes in 3'-5' map	
МТ	5 6 7 10	
. WI:	3'-M-SH-G-F-M2-L	
	5 - 6 9	
SH-minus:	3'-MG-F-M2-L	



D46/6340HEK plasmid encoding the RSV antigenome with SH deletion (underlined)



18/21

FIG. 19

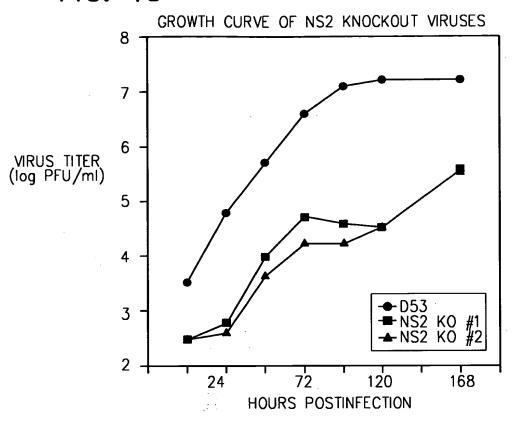
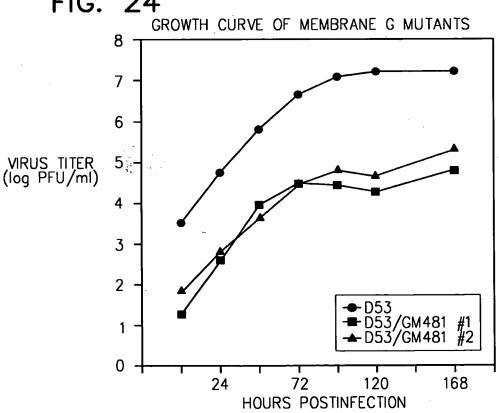


FIG. 24



Pacl

몴

≥ ۵ NS2 GENE END SIGNAL **D13** z 1099 Afill 1087 NS2 NS2 A AGTTAATATAAAA NS1 GENE END SIGNAL NS1 NS1 564 T7 promoter AatII

FIG. 20

